MAXIMUM RESISTANCE [mm. water-column height]

Type of gas mask	Inhalation		Exhalation
	Initial	Final 1	Exildiation
Front-mounted or back-mounted (without particulate filter) Front-mounted or back-mounted (with approved particulate filter) Chin-style (without particulate filter) Chin-style (with approved particulate filter) Escape (without particulate filter) Escape (with approved particulate filter)	60 70 40 65 60 70	75 85 55 80 75 85	20 20 20 20 20 20 20

¹ Measured at end of the service life specified in Tables 5, 6, and 7 of this subpart.

§84.123 Exhalation valve leakage test.

- (a) Dry exhalation valves and valve seats will be subjected to a suction of 25 mm. water-column height while in a normal operating position.
- (b) Leakage between the valve and valve seat shall not exceed 30 milliliters per minute.

§84.124 Facepiece tests; minimum requirements.

- (a) The complete gas mask will be fitted to the faces of persons having varying facial shapes and sizes.
- (b) Where the applicant specifies a facepiece size or sizes for the gas mask, together with the approximate measurements of faces they are designed to fit, the Institute will insure that test subjects suit such facial measurements.
- (c) Any gas mask parts which must be removed to perform the facepiece or mouthpiece fit test shall be replaceable without special tools and without disturbing the facepiece or mouthpiece fit.
- (d) The facepiece or mouthpiece fit test, using positive or negative pressure recommended by the applicant and described in his instructions will be used before each test specified in paragraph (e) of this section, and in §84.125.
- (e)(1) Each wearer will enter a chamber containing 100 p.p.m. isoamyl acetate vapor for a half-mask facepiece and 1,000 p.p.m. isoamyl acetate vapor for a full facepiece or mouthpiece.
- (2) The facepiece or mouthpiece may be adjusted, if necessary, in the test chamber before starting the tests.
- (3) Each wearer will remain in the chamber for 8 minutes while performing the following activities:

- (i) Two minutes, nodding and turning head:
- (ii) Two minutes, calisthenic arm movements:
- (iii) Two minutes, running in place; and
- (iv) Two minutes, pumping with a tire pump into a 28 liter (1 cubic foot) container.
- (4) Each wearer shall not detect the odor of isoamyl acetate during the test.

§84.125 Particulate tests; canisters containing particulate filters; minimum requirements.

Gas mask canisters containing filters for protection against particulates (e.g. dusts, fumes, mists, and smokes) in combination with gases, vapors, or gases and vapors, shall also comply with the requirements as prescribed in §§84.170 through 84.183, except for the airflow resistance test of §84.181.

§84.126 Canister bench tests; minimum requirements.

- (a)(1) Bench tests, except for carbon monoxide tests, will be made on an apparatus that allows the test atmosphere at 50 ± 5 percent relative humidity and room temperature (25 ± 2.5 °C.) to enter the canister continuously at concentrations and rates of flow specified in Tables 5, 6, and 7 of this subpart.
- (2) Three canisters will be removed from containers and tested as received from the applicant.
- (3) Two canisters, other than those described in paragraph (a)(2) of this section, will be equilibrated at room temperature by passing 25 percent relative humidity air through them at 64 liters per minute for 6 hours.
- (4) Two canisters, other than those described in paragraphs (a) (2) and (3)